



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Riverside City - WQCP
Contact: Kevin Sudds
Address: 5950 Acorn St.
Riverside, CA, 92504

Analytical Report: Page 1 of 1
Project Name: RWQCP-ADEQ TS/TVS
Project Number: ADEQ TS/TVS
Work Order Number: B9C0098

Report Date: 11-Apr-2019

Received on Ice (Y/N) Yes Temp: 3 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B9C0098-01	Comb Dig Eff	Sludge	3/1/19 9:40	Client	3/1/19 15:30	K. Sudds
B9C0098-02	Blended Solids	Sludge	3/1/19 9:25	Client	3/1/19 15:30	K. Sudds
B9C0098-03	DAF #1	Sludge	3/1/19 9:50	Client	3/1/19 15:30	K. Sudds

Note: Total and Volatile Solids were subcontracted to TestAmerica Analytical.

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Amanda C. Porter

cc:

e-Case Narrative+ COC.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

Page 1 of 1

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119

Denali_007417



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Riverside City - WQCP
Contact: Kevin Sudds
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Riverside, CA, 92504

Analytical Report: Page 1 of 1
Project Name: RWQCP-ADEQ TS/TVS
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Report Date: 11-Apr-2019

Received on Ice (Y/N) Yes Temp: 3 °C

E.S. Babcock & Sons, Inc. Environmental Laboratories
(951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: Riverside City-WQCP			Contact: Anicia Yambot			Phone No. (951)351-6016		
FAX No.			Email: AYambot@riversideca.gov			Additional Reporting Requests		
Project Name: ADEQ			Turn Around Time: Routine *3-5 Day *48 Hour *24 Hour			Include QC Data Package: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Project Location: RWQCP			*Lab TAT Approval: By: Rush Rush Rush			FAX Results: <input type="checkbox"/> Yes <input type="checkbox"/> No		
						Email Results: <input type="checkbox"/> Yes <input type="checkbox"/> No		
						State EDT: <input type="checkbox"/> Yes <input type="checkbox"/> No		
						(Include Source Number in Notes)		
Sampler Information			# of Containers & Preservatives			Analysis Requested		
Name:			Unpreserved H2SO4 HCl HNO3 H2O2 NaOH NaOH/ZnAcetate NH4Cl MCAA			Matrix		
Employer:			Total # of Containers			Notes		
Signature:			Routine Resample Special Analysis Requested % Total Solids % Volatile Solids			DW = Drinking Water WW = Wastewater GW = Groundwater S = Soil SG = Sludge L = Liquid M = Miscellaneous		
Sample ID	Date	Time						
Comb Dig EFF	3/1/19	0940	X			1 X	X	SG % Total Volatile Solids must be
								reported as percentage of
Blended Solids	3/1/19	0925	X			1 X	X	SG Total Solids
								Samples must also
DAF #1	3/1/19	0910	X			1 X	X	SG be analyzed by
								Arizona Certified
03/01/19 DAF #2	3/1/19		X			1 X	X	SG Laboratory
Relinquished By (sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company				
	K. Sudds RWQCP	03/01/19 1152		Robert D. ESB				

(For Lab Use Only)		Sample Integrity Upon Receipt		Lab Notes	
Sample(s) Submitted on Ice?	Yes No	Temperature			
Custody Seal(s) Intact?	Yes No	NA 1530 3 °C			
Sample(s) Intact?	Yes No	<input type="checkbox"/> Cooler Blank			

B9C0098
3/01/2019 16:29
JUG





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-235323-1
Client Project/Site: B9C0098

For:

Babcock Laboratories, Inc.
6100 Quail Valley Court
Riverside, California 92507

Attn: Amanda Porter

Authorized for release by:

3/14/2019 12:01:58 PM

Nathan Lewis, Project Manager I
(253)922-2310

nathan.lewis@testamericainc.com

Designee for

Christian Bondoc, Project Manager I
(949)261-1022

christian.bondoc@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Denali_007419



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Sample Summary

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-235323-1	B9C0098-01	Solid	03/01/19 09:40	03/05/19 10:30
440-235323-2	B9C0098-02	Solid	03/01/19 09:25	03/05/19 10:30
440-235323-3	B9C0098-03	Solid	03/01/19 09:50	03/05/19 10:30

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TestAmerica Irvine

Case Narrative

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Job ID: 440-235323-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-235323-1

Comments

No additional comments.

Receipt

The samples were received on 3/5/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client Sample Results

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Client Sample ID: B9C0098-01

Lab Sample ID: 440-235323-1

Date Collected: 03/01/19 09:40

Matrix: Solid

Date Received: 03/05/19 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.4		0.1	0.1	%			03/08/19 23:23	1
Total Volatile Solids	71		0.050	0.050	%			03/08/19 23:23	1
Total Solids	2.4		0.050	0.050	%			03/08/19 23:23	1

Client Sample ID: B9C0098-02

Lab Sample ID: 440-235323-2

Date Collected: 03/01/19 09:25

Matrix: Solid

Date Received: 03/05/19 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.7		0.1	0.1	%			03/08/19 23:23	1
Total Volatile Solids	81		0.050	0.050	%			03/08/19 23:23	1
Total Solids	3.7		0.050	0.050	%			03/08/19 23:23	1

Client Sample ID: B9C0098-03

Lab Sample ID: 440-235323-3

Date Collected: 03/01/19 09:50

Matrix: Solid

Date Received: 03/05/19 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.9		0.1	0.1	%			03/08/19 23:23	1
Total Volatile Solids	83		0.050	0.050	%			03/08/19 23:23	1
Total Solids	3.9		0.050	0.050	%			03/08/19 23:23	1

TestAmerica Irvine

Method Summary

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Method	Method Description	Protocol	Laboratory
Moisture	Percent Moisture	EPA	TAL IRV
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



Lab Chronicle

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Client Sample ID: B9C0098-01

Date Collected: 03/01/19 09:40

Date Received: 03/05/19 10:30

Lab Sample ID: 440-235323-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			533321	03/08/19 23:23	QTN	TAL IRV
Total/NA	Analysis	SM 2540G		1			533816	03/08/19 23:23	KM	TAL IRV

Client Sample ID: B9C0098-02

Date Collected: 03/01/19 09:25

Date Received: 03/05/19 10:30

Lab Sample ID: 440-235323-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			533321	03/08/19 23:23	QTN	TAL IRV
Total/NA	Analysis	SM 2540G		1			533816	03/08/19 23:23	KM	TAL IRV

Client Sample ID: B9C0098-03

Date Collected: 03/01/19 09:50

Date Received: 03/05/19 10:30

Lab Sample ID: 440-235323-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			533321	03/08/19 23:23	QTN	TAL IRV
Total/NA	Analysis	SM 2540G		1			533816	03/08/19 23:23	KM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TestAmerica Irvine

QC Sample Results

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Method: Moisture - Percent Moisture

Lab Sample ID: 440-235323-2 DU
Matrix: Solid
Analysis Batch: 533321

Client Sample ID: B9C0098-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	3.7		3.9		%	-	6	20

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 440-533816/1
Matrix: Solid
Analysis Batch: 533816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	ND		0.050	0.050	%	-		03/08/19 23:23	1

Lab Sample ID: 440-235323-2 DU
Matrix: Solid
Analysis Batch: 533816

Client Sample ID: B9C0098-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Volatile Solids	81		82.0		%	-	0.8	10
Total Solids	3.7		3.95		%	-	6	10

TestAmerica Irvine

QC Association Summary

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

General Chemistry

Analysis Batch: 533321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-235323-1	B9C0098-01	Total/NA	Solid	Moisture	
440-235323-2	B9C0098-02	Total/NA	Solid	Moisture	
440-235323-3	B9C0098-03	Total/NA	Solid	Moisture	
440-235323-2 DU	B9C0098-02	Total/NA	Solid	Moisture	

Analysis Batch: 533816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-235323-1	B9C0098-01	Total/NA	Solid	SM 2540G	
440-235323-2	B9C0098-02	Total/NA	Solid	SM 2540G	
440-235323-3	B9C0098-03	Total/NA	Solid	SM 2540G	
MB 440-533816/1	Method Blank	Total/NA	Solid	SM 2540G	
440-235323-2 DU	B9C0098-02	Total/NA	Solid	SM 2540G	

TestAmerica Irvine

Definitions/Glossary

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Babcock Laboratories, Inc.
Project/Site: B9C0098

TestAmerica Job ID: 440-235323-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-19
Arizona	State Program	9	AZ0671	10-14-19
California	LA Cty Sanitation Districts	9	10256	06-30-19
California	State Program	9	CA ELAP 2706	06-30-19
Guam	State Program	9	Cert. No. 19-005R	01-23-20
Hawaii	State Program	9	N/A	01-29-20
Kansas	NELAP	7	E-10420	07-31-19
Nevada	State Program	9	CA015312018-1	07-31-19
New Mexico	State Program	6	N/A	01-29-20
Oregon	NELAP	10	4028	01-29-20
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-18-00214	07-09-21
Washington	State Program	10	C900	09-03-19

TestAmerica Irvine

SUBCONTRACT ORDER

Printed: 3/4/2019 10:02

Babcock Laboratories, Inc.

B9C0098

SENDING LABORATORY:

Babcock Laboratories, Inc.
6100 Quail Valley Court
Riverside, CA 92507-0704
Phone: (951) 653-3351
Fax: (951) 653-1662
Project Manager: Amanda C. Porter

RECEIVING LABORATORY:

Test America Analytical - Irvine-Subcontract
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817
Phone: (949) 261-1022
Fax: (949) 261-1228

System Name: Riverside City - WQCP
Sampler: Client
Employed: RWQS

Analysis	Due	Expires Regulatory Days Past Date Sampled	Laboratory ID	Comments
Sample ID: B9C0098-01 Sludge		Sampled: 03/01/19 09:40	Comb Dig Eff	Proj.No.: <u>ADEQ TS/TVS</u>
Subout	03/27/19 23:59	03/11/19 09:40	Total Solids & Volatile Solids (as percentage of total)	
Containers Supplied: 500 mL Poly Unpres (A)				
Sample ID: B9C0098-02 Sludge		Sampled: 03/01/19 09:25	Blended Solids	Proj.No.: <u>ADEQ TS/TVS</u>
Subout	03/27/19 23:59	03/11/19 09:25	Total Solids & Volatile Solids (as percentage of total)	
Containers Supplied: 500 mL Poly Unpres (A)				
Sample ID: B9C0098-03 Sludge		Sampled: 03/01/19 09:50	DAF #1	Proj.No.: <u>ADEQ TS/TVS</u>
Subout	03/27/19 23:59	03/11/19 09:50	Total Solids & Volatile Solids (as percentage of total)	
Containers Supplied: 500 mL Poly Unpres (A)				

3/5/19
AK



440-235323 Chain of Custody

All Containers Intact: ☐ Yes ☐ No Samples Preserved Properly: ☐ Yes ☐ NoSamples Received at ☐ oC Sample Labels / COC Agree: ☐ Yes ☐ No Custody Seals Present: ☐ Yes ☐ NoPlease forward all acknowledgements of sample receipt, final reports and invoices to data@babcocklabs.com

NO HARDCOPIES PLEASE.

Released By: [Signature] Date: 3-4-19 Received By: [Signature] Date: 3/5/19 10:30

Released By: _____ Date: _____ Received By: _____ Date: _____

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CSRK-4876 1505 7251

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34/3.1

IR. 94 3/14/2019

Denali_007430

Login Sample Receipt Checklist

Client: Babcock Laboratories, Inc.

Job Number: 440-235323-1

Login Number: 235323

List Number: 1

Creator: Skinner, Alma D

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	